Abstract

Mental stress quantification using fuzzy analysis of ecg parameters is presented here. ECG signal is decomposed using the BIOR-3.9 wavelet family up to three levels. The approximates signals are used for computation ecg parameters like energy, entropy, power, standard deviation, mean and covariance. A fuzzy classifier is designed using trimf function as associate membership in fuzzy analysis. The ecg data base is taken from MIT data base web site.

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Index Terms
Computer Science
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Keywords
ECG  BIOR-3. 9 wavelet  Entropy  Energy  Power  Standard Deviation  Covariance
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